

SHOURYA GHOSH

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EDUCATION

University of Illinois at Urbana Champaign

Bachelor of Science in Engineering Physics

Expected Graduation : May 2024

Champaign, IL

- Deans List: Fall 2020, Spring 2022

Cumulative GPA: 3.60/4.00

EXPERIENCE

University of Illinois at Urbana Champaign

Undergraduate Researcher

May 2021 – August 2021

Champaign, IL

- Constructed mathematical models of the behavior of superconducting nanowires using the Mathematica programming language, demonstrating the conductivity of the nanowires at different conditions
- Presented findings to research group members in a graphical format using Mathematica plotting packages to draw line graphs illustrating the behavior of the nanowires in different conditions
- Learned about cutting-edge experimental techniques in the field of condensed matter by collaborating with group members.

PROJECTS

Calendar Bot

https://github.com/shourya5/Calendar_bot

- A Discord Calendar Bot, which continuously syncs and integrates with one's google calendar account and can be used to access calendar events via Discord
- The app is created by using the Python Discord API and the Google Calendar API for Python, and can be hosted on server, and linked a Google Calendar account

FireStorm

<https://github.com/shourya5/FireStorm>

- A Highly Extensible, static site HTTP Server called Firestorm, with support for features like custom HTTP Codes, Custom Error codes, etc. all implemented in Java

OPEN-SOURCE CONTRIBUTIONS

Rust

- Fixed an issue in the Rust language repository on GitHub wherein the Rust compiler panics when running a certain command

Pandas

- Extended the functionality of the Pandas warnings library to catch multiple warnings, and added tests to verify whether the warnings library catches multiple warnings

SKILLS

- Proficient in Java, C++, Python, C
- Experience using Python Libraries like NumPy, Pandas, SymPy, SciPy
- Experience working with APIs in Python and Java